

METHOD AND APPARATUS FOR MATCHING PETS TO APPROPRIATE PET PRODUCTS AND SUPPLIES

5

BACKGROUND OF THE INVENTION

Field of the Invention

The invention is a method and apparatus allowing a consumer to select Pet products and supplies appropriate for a specific breed of domestic pet.

10

Description of the Related Art

Domestic pets of all sizes and activity levels require safe and suitable products in their daily lives. Appropriate Pet products and supplies can help to satisfy both a pet's maintenance needs and their exercise, amusement, and socialization requirements.

15

Many pet owners become deeply attached to their pets, and are willing to spend considerable money providing for their maintenance and care. The industry serving these pet owners is large and diverse. A significant portion of the pet industry is devoted to manufacturing supplies to maintain, nurture, amuse and occupy pets.

20

The diversity of Pet products and supplies for pets available on the market is matched only by the diversity of the animals themselves. Pets differ in size, personality, and exercise requirements. Products appropriate for one pet may be entirely inappropriate for another pet. The prior art provides no guidance to the pet owner as to which products are appropriate for the owner's pet. An

25

inappropriate pet product cannot be properly used by the animal and is a waste of money for the pet owner. At worst, an inappropriate pet product can present a

hazard to the pet, such as an increased likelihood of the animal ingesting and choking on or experiencing intestinal blockage from the product.

The prior art does not teach a systematic classification system to assist the pet owner in determining whether a particular pet product is appropriate for the owner's pet.

5

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

SUMMARY OF THE INVENTION

The present invention provides systematic classification systems of pets and pet products to allow a pet owner to make an appropriate selection for the owner's pet.

5 In the present invention, indicia are assigned to a breed of pet. The indicia comprise one or more marks or designations that serve to differentiate one breed of animal from another, such as numbers, letters, words, symbols, colors, sounds, odors, any combination of the foregoing, or any other means of differentiation. In the preferred embodiment, the indicia comprise a "breed code" 10 consisting of a single numeral.

Many different methods can be used to assign a breed code to a particular breed. For dogs, one method is based on an evaluation of the weight of the typical adult of the breed and based on the degree of activity or activity level of the breed. Other factors also may be considered, such as the group to 15 which a dog belongs, the dog's weight and height, size and shape of the dog's jaw and many other possible factors. For purposes of this application, a "group" is a classification of dog breeds based on the purposes for which the breeds originally were developed. For cats, one method for assigning the breed code is based on the temperament and need for attention of the particular breed of cat. 20 A single breed code may apply to several breeds of pets.

A pet product is evaluated to determine for what breed codes it would be appropriate. The evaluation of the product may be based on the experience of the manufacturer or others, or may be empirical, as by exposing the product to

animals categorized within the various breed codes to determine by which animals the product is accepted. The breed code for each breed is then published, as is the list of appropriate breed codes for the product. The pet owner may thereby learn the breed code applicable to his or her particular pet and may choose a product from those Pet products and supplies having an identical breed code. The pet owner thereby may select a product knowing that there is an increased likelihood that the product will be safe, suitable, and useable by the owner's pet.

The breed codes appropriate to a particular product may be published by placing the breed codes on the packaging of the individual pet product, on the pet product itself, or in any other location convenient to the pet owner.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a product attached to retail display packaging.

Fig. 2 is a retail display with breed code information.

Fig. 3 is a product marked with a breed code.

5 Fig. 4 illustrates a computer network implementing the present invention.

Fig. 5 is a flow chart for one method of determining breed code for dogs.

Fig. 1 is a product attached to retail display packaging.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Indicia are assigned to a breed of pet, such a breed of dog or cat. In the preferred embodiment, the indicia comprise a numerical breed code. Pet products and supplies are categorized to determine for what pets having a breed code a product having an identical breed code is appropriate. Finally, the breed code assigned to a particular breed and list of Pet products and supplies categorized by breed code are published. Publication of the breed codes and publication of the list of Pet products and supplies categorized by breed code informs a pet owner as to whether a particular product is appropriate for a particular pet.

As shown by Figs. 1 the publication of the breed code categories 2 for which a product is appropriate need not appear as a list and may appear on the container or packaging 4 of a product 6. As shown by Fig. 2, the publication of the breed code categories 2 may be in the form of labeling, advertising, or any other means 8 in the proximity of a product 6. The publication of the breed code categories 2 may appear on the product itself 6 Fig. 3, as by printing, embossing or creation of a raised pattern. Also as shown by Fig. 3, a single product 6 may be suitable for pets belonging to several breed codes 2.

Publication of the breed codes and publication of the list of pet products and supplies categorized by breed code may be implemented by computer or other communication device. As shown by Fig. 4, a user instructs a client computer 10 to request information from a server computer 14. The client computer 10 sends the request through a computer network 12, which may be

the Internet. The server computer 14 receives the request. The server computer 14 transmits information through the computer network 12 to the client computer 10, where a display 16 exhibits the information to the user. The information transmitted by the server computer 14 to the client computer 10 may comprise the identification of a product 6 and publication of the breed codes categories 2 for which the product 6 is appropriate.

For the purposes of this application, a client computer 10 is any device capable of requesting information over a computer network 12 and displaying 16 received information to the user. For the purposes of this application, a server computer 14 is any device capable of delivering information to a client computer 10 over a computer network 12.

Any suitable method may be used to assign indicia to a breed of pet. Dogs and cats can be categorized in any of many possible ways, including without limitation: age of the animal, dimensions of various features of the animal, weight of the animal, bone structure, the size of the jaw, chewing temperament, athleticism, exercise needs, group, breed, personality characteristics, taste and odor preferences, and any other factors that assist in predicting behavior and preferences. Any such categorization is contemplated by this application. Although the present method assigns a single breed code to all pets of that breed, it is contemplated that multiple indicia could be assigned to pets of the same breed based on weight, age or other characteristics or for the purpose of matching the breed with Pet products and supplies of different types,

such as chewing Pet products and supplies and fetching Pet products and supplies.

The indicia may comprise a breed code assigned to a breed and an identical breed code used to designate an appropriate product. The indicia
5 assigned to the breed and the product may not be identical, but may correspond one to another; as, for example and without limitation, a first color assigned to a breed and a second color assigned to Pet products and supplies appropriate for pets of that breed.

For the purposes of this application, a “breed” of pet, such as a dog or cat,
10 is a relatively homogenous group of animals identified by experts. Pets of a particular breed, such as breeds of dog recognized by the American Kennel Club, share characteristics of weight, jaw size and shape, activity level and personality characteristics. The breed of a dog provides a reasonable estimation of the needs of that dog. A pet product appropriate to one dog of a particular
15 breed likely will be appropriate to most dogs of the same breed.

The starting point for the determination of breed codes for dogs is identifying the breed and determining the weight and exercise requirements of each breed of dog. The “breeds” of dog are those recognized by the American Kennel Club. The weight of each breed is the ideal weight of an adult dog of the
20 breed as published by the American Kennel Club. The exercise requirement is based on information obtained from published sources; namely the Encyclopedia of Dogs by D. Caroline Coile, Ph.D., published by Barron’s, ISBN 0-7641-5097-0, and is based on the activity expected from typical dogs of each breed.

An exercise factor is derived for each breed of dogs, as shown by Table 1.

The exercise requirement is an assigned value of 1 through 5, with one being a very low exercise requirement and five being a very high exercise requirement.

The exercise factor is derived from the exercise requirement.

Exercise Requirement	Exercise Factor
0-1	1
2-5	2

Table 1.

A weight factor is derived based on the ideal weight for an adult dog of the breed as shown in Table 2. As an example and as shown on Table 2, a breed of
5 dog with an ideal adult weight of 10 pounds is assigned a weight factor of 0.

Weight in lbs.	Weight Factor
0-10	0
11-16	2
17-35	3
36-45	4
46-70	5
71-80	6
81 and above	7

Table 2.

To calculate the breed code for a breed of dog, the exercise factor for that breed is added to the weight factor for the breed. The sum is the breed code. Fig. 5 is a flow chart showing the calculation of breed codes by summing the
10 exercise factor and the weight factor. Table 3 below is the result of the summation of exercise factor and weight factor for several breeds of dogs recognized by the American Kennel Club. Included in Table 3 are the breed,

group name, weight, activity requirement, exercise factor, weight factor and resulting breed code. The breeds are grouped in the table by breed code.

Table 3: Breed Code Determination

	Breed	Group	Weight	Exercise	Exercise Factor	Weight Factor
5	Breed Code: 1					
	Chihuahua	Toy	5	1	1	0
	Coton De Tulear	Toy	8	1	1	0
	English Toy Spaniel	Toy	10	1	1	0
10	Japanese Chin	Toy	5	1	1	0
	Maltese	Toy	5	1	1	0
	Papillon	Toy	10	1	1	0
	Pekingese	Toy	10	1	1	0
	Pomeranian	Toy	5	1	1	0
15	Breed Code: 2					
	Affenpinscher	Toy	9	3	2	0
	American Eskimo Toy	Non-Sporting	8	3	2	0
	Bichon Frise	Non-Sporting	10	2	2	0
	Brussels Griffon	Toy	9	2	2	0
20	Chinese Crested	Toy	8	2	2	0
	Dachshund Mini & Toy	Toy	10	2	2	0
	Fox Terrier -Toy	Toy	5	3	2	0
	Manchester Terrier Toy	Toy	8	2	2	0
	Miniature Pinscher	Toy	9	2	2	0
25	Schipperke mini	Toy	10	3	2	0
	Silky Terrier	Toy	10	2	2	0
	Toy Poodle	Toy	6	2	2	0
	Yorkshire Terrier	Toy	7	2	2	0
	Breed Code: 3					
30	Lhasa Apso	Non-Sporting	14	1	1	2
	Lowchen	Non-Sporting	15	1	1	2
	Pug	Toy	16	1	1	2
	Shih Tzu	Toy	13	1	1	2
	Breed Code: 4					
35	American Eskimo Mini	Non-Sporting	15	3	2	2
	Australian Terrier	Terrier	12	3	2	2
	Border Terrier	Terrier	15	3	2	2
	Boston Terrier	Non-Sporting	20	1	1	3
	Bulldog French *special need	Non-Sporting	25	1	1	3

40

	Breed	Group	Weight	Exercise	Exercise Factor	Weight Factor
	Breed Code: 4					
5	Cairn Terrier	Terrier	14	3	2	2
	Cavalier King Charles Spaniel	Toy	15	3	2	2
	Havanese *wght	Toy	13	3	2	2
	Italian Greyhound	Toy	13	2	2	2
	Jack Russell Terrier	Terrier	15	4	2	2
10	Miniature Schnauzer	Terrier	14	3	2	2
	Norfolk Terrier	Terrier	12	3	2	2
	Norwich Terrier	Terrier	12	3	2	2
	Poodle mini	Non-Sporting	15	3	2	2
	Schipperke	Non-Sporting	15	3	2	2
	Tibetan Spaniel	Non-Sporting	12	2	2	2
15	Breed Code: 5					
20	American Eskimo Dog	Non-Sporting	30	3	2	3
	Basenji	Hound	25	3	2	3
	Basset Hound	Hound	45	1	1	4
	Beagle	Hound	25	3	2	3
	Bedlington Terrier	Terrier	20	3	2	3
25	Bulldog English *special need	Non-Sporting	45	1	1	4
	Cardigan Welsh Corgi	Herding	35	2	2	3
	Cocker Spaniel	Sporting	30	3	2	3
	Dachshund *wght	Hound	30	2	2	3
	Dandie Dinmont Terrier	Terrier	21	3	2	3
30	English Cocker Spaniel	Sporting	35	3	2	3
	Finnish Spitz	Non-Sporting	30	3	2	3
	Fox Terrier Smooth & Wire	Terrier	20	3	2	3
	Foxhound American	Hound	24	4	2	3
	Irish Terrier	Terrier	25	3	2	3
35	Lakeland Terrier	Terrier	20	3	2	3
	Manchester Terrier	Terrier	22	3	2	3
	Miniature Bull Terrier	Terrier	29	3	2	3
	Pembroke Welsh Corgi	Herding	25	3	2	3
	Petit Basset Griffon Vendéen	Hound	35	3	2	3
40	Puli	Herding	30	3	2	3
	Scottish Terrier	Terrier	20	3	2	3
	Sealyham Terrier	Terrier	23	2	2	3
	Shetland Sheepdog	Herding	20	3	2	3
	Shiba Inu	Non-Sporting	25	3	2	3
45	Skye Terrier	Terrier	20	2	2	3
	Soft Coated Wheaten Terrier	Terrier	35	3	2	3
	Staffordshire Bull Terrier	Terrier	35	3	2	3
	Tibetan Terrier	Non-Sporting	25	3	2	3
	Welsh Terrier	Terrier	35	3	2	3
	West Highland White Terrier	Terrier	20	3	2	3
	Whippet	Hound	30	3	2	3

		Weight	Exercise		Weight
Breed	Group		Exercise	Factor	Factor
Breed Code: 6					
Airedale Terrier	Terrier	45	3	2	4
American Water Spaniel	Sporting	40	3	2	4
Australian Cattle Dog	Herding	40	5	2	4
Border Collie	Herding	40	5	2	4
Brittany	Sporting	40	5	2	4
Field Spaniel	Sporting	45	4	2	4
Ibizan Hound	Hound	45	3	2	4
Keeshond	Non-Sporting	40	3	2	4
Kerry Blue Terrier	Terrier	40	3	2	4
Norwegian Elkhound	Hound	45	3	2	4
Schnauzer Standard	Working	40	3	2	4
Sussex Spaniel	Sporting	40	3	2	4
Welsh Springer Spaniel	Sporting	45	3	2	4
Breed Code: 7					
Afghan Hound	Hound	60	3	2	5
American Staffordshire	Terrier	60	3	2	5
Australian Shepherd	Herding	50	5	2	5
Bearded Collie	Herding	50	4	2	5
Belgian Malinois	Herding	65	5	2	5
Belgian Sheepdog same	Herding	65	5	2	5
Boxer	Working	65	3	2	5
Bull Terrier	Terrier	55	3	2	5
Canaan Dog	Herding	50	4	2	5
Chesapeake Bay Retriever	Sporting	70	3	2	5
Chinese Shar-pei	Non-Sporting	55	3	2	5
Chow Chow	Non-Sporting	60	2	2	5
Clumber Spaniel	Sporting	60	2	2	5
Collie	Herding	65	3	2	5
Curly-Coated Retriever	Sporting	70	3	2	5
Dalmatian	Non-Sporting	55	3	2	5
English Setter	Sporting	65	4	2	5
English Springer Spaniel	Sporting	50	4	2	5
Flat-Coated Retriever	Sporting	70	3	2	5
Foxhound English	Hound	65	4	2	5
German Shorthaired Pointer	Sporting	70	5	2	5
German Wirehaired Pointer	Sporting	60	5	2	5
Golden Retriever	Sporting	70	3	2	5
Gordon Setter	Sporting	70	4	2	5
Greyhound	Hound	65	3	2	5
Harrier	Hound	55	4	2	5
Irish Setter	Sporting	55	5	2	5
Irish Water Spaniel	Sporting	55	3	2	5
Italian Spinoni	Sporting	70	3	2	5
Labrador Retriever	Sporting	70	3	2	5
Pharaoh Hound	Hound	55	4	2	5
Plott Hound	Hound	65	3	2	5

			Weight		Exercise	Factor	Weight
	Breed	Group			Exercise	Factor	Factor
	Breed Code: 7						
5	Pointer	Sporting	60	4	2		5
	Poodle standard	Non-Sporting	50	4	2		5
	Portuguese Water Dog	Working	55	4	2		5
	Saluki	Hound	60	3	2		5
	Samoyed	Working	55	3	2		5
10	Siberian Husky	Working	50	4	2		5
	Vizsla	Sporting	65	3	2		5
	Weimaraner	Sporting	70	5	2		5
	Wirehaired Pointing Griffon	Sporting	60	4	2		5
	Breed Code: 8						
15	Alaskan Malamute	Working	80	4	2		6
	Black and Tan Coonhound	Hound	75	4	2		6
	Doberman Pinscher	Working	80	3	2		6
	Komondor	Working	75	3	2		6
	Old English Sheepdog	Herding	80	3	2		6
20	Rhodesian Ridgeback	Hound	80	3	2		6
	Schnauzer Giant	Working	80	4	2		6
	Breed Code: 9						
25	Akita	Working	90	3	2		7
	Anatolian Shepherd	Working	120	3	2		7
	Bernese Mountain Dog	Working	100	2	2		7
	Bloodhound	Hound	100	3	2		7
	Borzoi	Hound	85	3	2		7
30	Bouvier Des Flandres	Herding	85	4	2		7
	Briard	Herding	85	4	2		7
	Bullmastiff	Working	120	2	2		7
	German Shepherd Dog	Herding	85	4	2		7
	Great Dane	Working	110	3	2		7
35	Great Pyrenees	Working	90	3	2		7
	Great Swiss Mountain Dog	Working	110	3	2		7
	Irish Wolfhound	Hound	110	3	2		7
	Kuvasz	Working	100	4	2		7
	Mastiff	Working	180	2	2		7
40	Newfoundland	Working	150	2	2		7
	Otterhound	Hound	90	3	2		7
	Rottweiler	Working	110	3	2		7
	Saint Bernard	Working	165	2	2		7
	Scottish Deerhound	Hound	90	3	2		7

As illustrated by Table 3, the characteristics of pets of a particular breed are determined in part by the purpose for which a particular breed was originally developed. For dogs, those purposes are divided into seven groups, as follows.

- a. Dogs of the sporting group were bred for hunting and retrieving.

Dogs of this group have a keen sense of smell and may be swimmers.

- b. The hound group includes two branches. The sight hounds were bred for sighting and chasing prey. Scent hounds, which tend to be larger dogs,
5 were bred to locate prey by scent.

- c. The working group includes guard dogs, military dogs, pack dogs, life-saving dogs, fighting dogs, police dogs, companion dogs and sled dogs.

- d. Dogs of the terrier group were bred for hunting prey in burrows.

- e. The Toy group includes dogs bred for size as companion dogs.

10 Dogs of this group were derived from the hound, sporting and terrier groups.

- f. The non-sporting group is a catch all for dogs not included in the other groups.

- g. The herding group was bred for assistance in corralling animals and protecting them from predators.

15 A breed code may be assigned for a breed of cat. A temperament factor is assigned to each breed based on the characteristics of the breed; namely, the activity level of the breed. A cat's need-for-attention factor also is assigned to each breed based on the characteristics of the breed. The need-for-attention of the breed is based on the need of cats in the breed for interaction with humans.

20 The temperament factor and need-for-attention factor are summed to obtain the breed code for a breed of cat.